



Size R0.5~R6

**DCB**



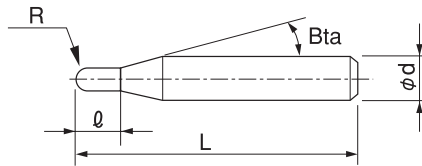
Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
									○	★	○	○	●				○

**Features**

**Diamond coated 2 flute ball end mills for Graphite Electrode milling.**

**New diamond coating with a highly adhesive base layer offers excellent wear resistance and longer tool life.**



The shank taper angle shown is not an exact value and to avoid contact with the work piece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the work piece.

Total 9 models

Unit (mm)

Model Number	Radius of Ball Nose R	Length of Cut $\ell$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Suggested Retail Price ¥
DCB 2010	R0.5	5	16°	60	4	16,000
DCB 2020	R1	10	16°	70	4	17,000
DCB 2030	R1.5	15	16°	80	4	21,000
DCB 2040	R2	20	—	100	4	24,000
DCB 2050	R2.5	20	—	100	5	28,000
DCB 2060	R3	30	—	150	6	41,500
DCB 2080	R4	40	—	150	8	45,000
DCB 2100	R5	50	—	180	10	57,500
DCB 2120	R6	55	—	180	12	87,500

## Milling Conditions for DCB

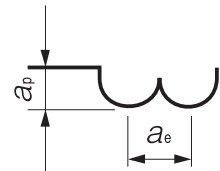
WORK MATERIAL		GRAPHITE			
Model Number	Radius of Ball Nose (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)
2010	R0.5	10,000	140	0.1	0.3
2020	R1	10,000	300	0.2	0.6
2030	R1.5	10,000	900	0.3	0.9
2040	R2	10,000	900	0.4	1.2
2050	R2.5	10,000	1,200	0.5	1.5
2060	R3	10,000	1,460	0.6	1.8
2080	R4	7,500	1,350	0.8	2.4
2100	R5	6,000	1,440	1	3
2120	R6	5,000	1,400	1.2	3.6

## ◆ High speed milling

WORK MATERIAL		GRAPHITE			
Model Number	Radius of Ball Nose (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)
2010	R0.5	50,000	700	0.1	0.3
2020	R1	45,000	1,350	0.2	0.6
2030	R1.5	30,000	2,700	0.3	0.9
2040	R2	22,500	2,025	0.4	1.2
2050	R2.5	18,000	2,160	0.5	1.5
2060	R3	15,000	2,190	0.6	1.8
2080	R4	11,500	2,300	0.8	2.4
2100	R5	9,000	2,340	1	3
2120	R6	7,500	2,250	1.2	3.6

Note:

- Use a milling machine dedicated for Graphite.
- Recommend air blow for Graphite.

For 3D milling / Finishing  
Milling Amount (mm)DCB Series  
Aluminum:A7075  
Milling VideoDCB Series  
Graphite:TTK-5(80HS)  
Milling VideoØ3mm Shank  
V SeriesUDC-PCD  
SeriesCBN  
Series

Square

Square

Long Neck  
Square

Radius

Radius

Long Neck  
RadiusTaper Neck  
RadiusBall / Long  
Shank Ball

Ball

Long Neck  
BallTaper Neck  
Ball

Taper

Taper

Barrel

Spiral  
V Cutter

Drill

Technical Data



Size R0.2~R3

**DCLB**



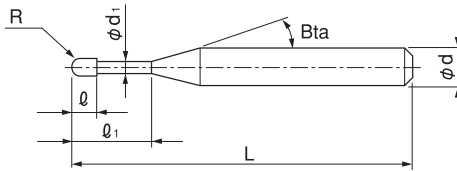
Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
									○	★	○	○	●				○

**Features**

**Diamond coated 2 flute long neck ball end mills for Graphite Electrodes.**

**A highly adhesive coating base, offers long tool life and excellent wear resistance.**



The shank taper angle shown is not an exact value and to avoid contact with the work piece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the work piece.

Total 68 models

Unit (mm)

Model Number	Radius of Ball Nose R	Effective Length $l_1$	Length of Cut $l$	Neck Diameter $\phi d_1$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Suggested Retail Price ¥	Effective Length by Inclined Angles				
									30°	1°	1° 30'	2°	3°
DCLB 2004-0020	R0.2	2	0.32	0.37	16°	45	4	13,000	2.24	2.41	2.54	2.65	2.85
DCLB 2004-0030		3				45	4	13,000	3.33	3.52	3.67	3.80	4.08
DCLB 2004-0040		4				45	4	13,000	4.39	4.61	4.78	4.94	5.30
DCLB 2004-0050		5				45	4	13,000	5.45	5.69	5.88	6.08	6.52
DCLB 2005-0020	R0.25	2	0.4	0.47	16°	45	4	13,000	2.29	2.49	2.64	2.78	3.01
DCLB 2005-0030		3				45	4	13,000	3.39	3.61	3.79	3.95	4.24
DCLB 2005-0060		6				45	4	13,000	6.59	6.89	7.13	7.37	7.91
DCLB 2005-0100		10				45	4	13,000	10.78	11.16	11.53	11.93	12.80
DCLB 2006-0020	R0.3	2	0.48	0.57	16°	45	4	13,000	2.33	2.55	2.73	2.89	3.16
DCLB 2006-0030		3				45	4	13,000	3.44	3.70	3.90	4.08	4.40
DCLB 2006-0040		4				45	4	13,000	4.53	4.82	5.05	5.24	5.62
DCLB 2006-0060		6				45	4	13,000	6.67	7.01	7.28	7.52	8.07
DCLB 2006-0100		10				45	4	13,000	10.89	11.31	11.68	12.08	12.96
DCLB 2006-0120		12				45	4	13,000	12.98	13.44	13.88	14.36	15.41
DCLB 2008-0100	R0.4	10	0.64	0.77	16°	45	4	13,000	10.88	11.30	11.67	12.07	12.94
DCLB 2008-0120		12				50	4	13,000	12.97	13.43	13.87	14.34	15.39
DCLB 2008-0160		16				50	4	13,000	17.13	17.69	18.27	18.90	20.28

Model Number	Radius of Ball Nose R	Effective Length $l_1$	Length of Cut $l$	Neck Diameter $\phi d$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Suggested Retail Price ¥	Effective Length by Inclined Angles							
									30°	1°	1° 30'	2°	3°			
DCLB 2010-0030	RO.5	3	0.8	0.96	16°	45	4	13,000	3.45	3.69	3.89	4.06	4.37			
DCLB 2010-0050		5				45	4	13,000	5.61	5.91	6.16	6.37	6.81			
DCLB 2010-0060		6				45	4	13,000	6.67	7.01	7.27	7.51	8.04			
DCLB 2010-0080		8				45	4	13,000	8.79	9.17	9.47	9.78	10.48			
DCLB 2010-0100		10	1.5			60	4	13,000	10.89	11.31	11.67	12.06	12.93			
DCLB 2010-0100-08		10	0.8			45	4	13,000	10.89	11.31	11.67	12.06	12.93			
DCLB 2010-0120		12				50	4	13,000	12.98	13.44	13.87	14.34	15.38			
DCLB 2010-0160		16				50	4	13,000	17.14	17.70	18.27	18.89	20.27			
DCLB 2010-0200		20				1.5	60	4	13,000	21.28	21.95	22.68	23.45	25.17		
DCLB 2015-0060	RO.75	6	1.2	1.44	16°	45	4	15,000	6.14	6.32	6.51	6.71	7.16			
DCLB 2015-0100		10				45	4	15,000	10.27	10.58	10.91	11.27	12.06			
DCLB 2015-0160		16				50	4	15,000	16.46	16.97	17.51	18.10	19.40			
DCLB 2020-0040	R1	4	1.6	1.9	16°	45	4	13,000	4.13	4.23	4.34	4.46	4.73			
DCLB 2020-0060		6				45	4	13,000	6.19	6.36	6.54	6.74	7.17			
DCLB 2020-0080		8				45	4	13,000	8.25	8.49	8.74	9.02	9.62			
DCLB 2020-0100		10				45	4	13,000	10.31	10.62	10.94	11.29	12.07			
DCLB 2020-0120		12				45	4	13,000	12.38	12.75	13.15	13.57	14.52			
DCLB 2020-0160		16				50	4	13,000	16.50	17.01	17.55	18.12	19.41			
DCLB 2020-0200-16		20				60	4	13,000	20.63	21.27	21.95	22.68	No Interference			
DCLB 2020-0200		20	3	70	4	13,000	20.63	21.27	21.95	22.68	No Interference					
DCLB 2020-0250		25	1.6	65	4	13,000	25.79	26.59	27.45	28.37	No Interference					
DCLB 2020-0250-30		25	3	65	4	13,000	25.79	26.59	27.45	28.37	No Interference					
DCLB 2020-0300-16		30	1.6	70	4	13,000	30.94	31.92	32.95	No Interference	No Interference					
DCLB 2020-0300		30	3	70	4	13,000	30.94	31.92	32.95	No Interference	No Interference					
DCLB 2020-0350		35	1.91	16°	1.91	16°	70	4	13,000	36.09	37.23	38.45	No Interference	No Interference		
DCLB 2020-0400		40					80	4	13,500	41.25	42.55	No Interference	No Interference	No Interference		
DCLB 2030-0160		R1.5	16	2.4	2.9	16°	60	6	15,000	16.49	16.98	17.50	18.06	19.30		
DCLB 2030-0200			20				60	6	15,000	20.61	21.23	21.90	22.61	24.20		
DCLB 2030-0250			25				70	6	17,000	25.77	26.56	27.40	28.30	30.31		
DCLB 2030-0300	30		4.5	80			4	13,500	30.93	No Interference	No Interference	No Interference	No Interference			
DCLB 2030-0300-S6	30		2.4	80			6	17,000	30.93	31.88	32.90	34.00	No Interference			
DCLB 2030-0400-S6	40			80			6	18,500	41.24	42.53	43.91	No Interference	No Interference			
DCLB 2030-0400	40		4.5	80			4	15,000	41.24	No Interference	No Interference	No Interference	No Interference			
DCLB 2040-0160	R2		16	3.2			3.9	16°	70	6	16,500	16.47	16.94	17.45	17.99	19.19
DCLB 2040-0200			20						70	6	16,500	20.60	21.20	21.85	22.54	No Interference
DCLB 2040-0250		25	70		6	16,500			25.75	26.53	27.35	28.24	No Interference			
DCLB 2040-0300		30	70		6	16,500			30.91	31.85	32.85	No Interference	No Interference			
DCLB 2040-0300-60		30	6		100	4			18,500	No Interference	No Interference	No Interference	No Interference	No Interference		
DCLB 2040-0400-S6		40	3.2	16°	90	6		18,500	41.22	42.50	No Interference	No Interference	No Interference			
DCLB 2040-0400		40	6	100	4	18,500		No Interference	No Interference	No Interference	No Interference	No Interference				
DCLB 2040-0500-S6		50	3.2	16°	100	6		19,800	51.54	53.15	No Interference	No Interference	No Interference			
DCLB 2040-0500		50	6	100	4	19,000		No Interference	No Interference	No Interference	No Interference	No Interference				
DCLB 2040-0600		60	3.91	100	4	19,000		No Interference	No Interference	No Interference	No Interference	No Interference				
DCLB 2050-0200	R2.5	20	4	4.8	16°	70	6	16,500	20.76	21.36	21.99	No Interference	No Interference			
DCLB 2050-0300		30				80	6	17,000	31.08	32.00	No Interference	No Interference	No Interference			
DCLB 2060-0300	R3	30	4.8	5.7	-	80	6	17,000	No Interference	No Interference	No Interference	No Interference	No Interference			
DCLB 2060-0400		40				100	6	19,800	No Interference	No Interference	No Interference	No Interference	No Interference			
DCLB 2060-0500		50				120	6	19,800	No Interference	No Interference	No Interference	No Interference	No Interference			
DCLB 2060-0600		60				120	6	23,000	No Interference	No Interference	No Interference	No Interference	No Interference			
DCLB 2060-0700		70				5.71	-	120	6	23,000	No Interference	No Interference	No Interference	No Interference	No Interference	
DCLB 2060-0800		80						120	6	25,300	No Interference	No Interference	No Interference	No Interference	No Interference	

3mm Shank  
V Series

UDC-PCD  
Series

CBN  
Series

Square

Long Neck  
Square

Radius

Long Neck  
Radius

Taper Neck  
Radius

Ball / Long  
Shank Ball

Long Neck  
Ball

Taper Neck  
Ball

Taper

Barrel

Spiral  
V Cutter

Drill

Technical Data

Milling Conditions for DCLB

WORK MATERIAL			GRAPHITE			
Model Number	Radius of Ball Nose (mm)	Effective Length (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	a <sub>p</sub> Axial Depth (mm)	a <sub>e</sub> Radial Depth (mm)
2004-0020	R0.2	2	33,500	1,100	0.1	0.04
2004-0030		3	33,500	1,100	0.09	0.04
2004-0040		4	33,500	1,100	0.08	0.04
2004-0050		5	33,500	1,100	0.06	0.04
2005-0020		R0.25	2	33,500	1,200	0.11
2005-0030	3		33,500	1,200	0.1	0.05
2005-0060	6		33,500	1,200	0.07	0.05
2005-0100	10		33,500	1,200	0.03	0.05
2006-0020	R0.3	2	33,500	1,300	0.15	0.06
2006-0030		3	33,500	1,300	0.13	0.06
2006-0040		4	33,500	1,300	0.12	0.06
2006-0060		6	33,500	1,300	0.1	0.06
2006-0100		10	33,500	1,300	0.04	0.06
2006-0120	R0.4	12	33,500	1,300	0.04	0.06
2008-0100		10	33,500	1,400	0.13	0.08
2008-0120		12	33,500	1,400	0.1	0.08
2008-0160		16	33,500	1,400	0.08	0.08
2010-0030	R0.5	3	33,500	1,500	0.2	0.1
2010-0050		5	33,500	1,500	0.19	0.1
2010-0060		6	33,500	1,500	0.19	0.1
2010-0080		8	33,500	1,500	0.18	0.1
2010-0100(-08)		10	33,500	1,500	0.16	0.1
2010-0120		12	33,500	1,500	0.15	0.1
2010-0160		16	33,500	1,500	0.12	0.1
2010-0200	R0.75	20	33,500	1,500	0.1	0.1
2015-0060		6	30,000	1,500	0.35	0.15
2015-0100		10	30,000	1,500	0.3	0.15
2015-0160		16	30,000	1,500	0.25	0.15
2020-0040	R1	4	27,000	1,500	0.5	0.2
2020-0060		6	27,000	1,500	0.49	0.2
2020-0080		8	27,000	1,500	0.48	0.2
2020-0100		10	27,000	1,500	0.46	0.2
2020-0120		12	27,000	1,500	0.43	0.2
2020-0160		16	27,000	1,500	0.38	0.2
2020-0200(-16)		20	27,000	1,500	0.24	0.2
2020-0250(-30)		25	27,000	1,500	0.19	0.2
2020-0300(-16)		30	27,000	1,500	0.12	0.2
2020-0350		35	27,000	1,500	0.11	0.2
2020-0400	40	27,000	1,500	0.09	0.2	

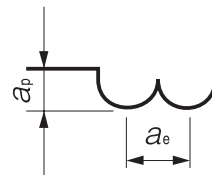
- Ø3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
- Long Neck Square
- Radius
- Long Neck Radius
- Taper Neck Radius
- Ball / Long Shank Ball
- Long Neck Ball
- Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

## Milling Conditions for DCLB

WORK MATERIAL			GRAPHITE				
Model Number	Radius of Ball Nose (mm)	Effective Length (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)	
2030-0160	R1.5	16	18,000	1,650	0.5	0.45	
2030-0200		20	18,000	1,650	0.44	0.45	
2030-0250		25	18,000	1,650	0.36	0.45	
2030-0300(-S6)		30	18,000	1,650	0.3	0.45	
2030-0400(-S6)		40	18,000	1,650	0.2	0.45	
2040-0160		R2	16	13,500	1,750	0.7	0.6
2040-0200	20		13,500	1,750	0.65	0.6	
2040-0250	25		13,500	1,750	0.55	0.6	
2040-0300	30		13,500	1,750	0.5	0.6	
2040-0300(-60)	30		13,500	1,750	0.5	0.6	
2040-0400(-S6)	40		13,500	1,750	0.4	0.6	
2040-0500(-S6)	50		13,500	1,750	0.24	0.6	
2040-0600	60		13,500	1,750	0.18	0.6	
2050-0200	R2.5		20	10,800	1,600	0.8	0.75
2050-0300			30	10,800	1,600	0.6	0.75
2060-0300	R3	30	9,000	1,400	0.9	0.9	
2060-0400		40	9,000	1,400	0.75	0.9	
2060-0500		50	9,000	1,400	0.6	0.9	
2060-0600		60	9,000	1,400	0.51	0.9	
2060-0700		70	9,000	1,400	0.4	0.9	
2060-0800		80	9,000	1,400	0.23	0.9	

## Note:

- Use a milling machine dedicated for Graphite.
- Decrease the feed rate more than 50% from the milling parameters when slot milling.
- Recommend air blow for Graphite.



Ø3mm Shank  
V Series

UDC-PCD  
Series

CBN  
Series

Square

Long Neck  
Square

Radius

Long Neck  
Radius

Taper Neck  
Radius

Ball / Long  
Shank Ball

Long Neck  
Ball

Taper Neck  
Ball

Taper

Barrel

Spiral  
V Cutter

Drill

Technical Data



Size R0.5~R1

# DCTNB

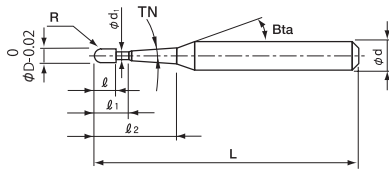
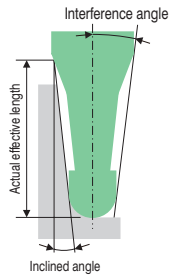
MG DIA 35° R ±0.01 Shank Dia 0/-0.005

Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
									○	★	○	○	●				○

### Features

**2 Flute Diamond coated Taper Neck Ball End Mills for Graphite Electrodes.**  
**Taper Neck design improves the tool rigidity and provides high-efficiency & high-precision milling.**  
**Original and optimized Diamond coating offers outstanding resistance to wear on Graphite.**  
**Excellent adhesion coating with long-life tool design.**



The shank taper angle shown is not an exact value and to avoid contact with the work piece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the work piece.

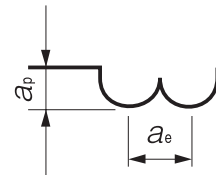
Total 15 models

Unit (mm)

Model Number	Radius of Ball Nose R	Neck Taper Angle TN	Neck Length $\ell_2$	Effective Length $\ell_1$	Length of Cut $\ell$	Neck Diameter $\phi d_1$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Suggested Retail Price ¥	Interference Angle	Effective Length by Inclined Angles - : Interference				
												30'	1°	1°30'	2°	3°
DCTNB 2010-200-1.8	R0.5	0.9°	20	4	0.8	0.96	16°	80	6	18,730	5.25°	-	20.24	20.90	21.61	23.20
DCTNB 2010-250-1.8			25					80	6	21,850	4.48°	-	25.27	26.10	26.99	28.98
DCTNB 2010-400-1.8			40					100	6	25,470	3.11°	-	40.36	41.70	43.13	46.32
DCTNB 2010-600-1.8			60					120	6	33,220	2.21°	-	60.49	62.50	64.65	No Interference
DCTNB 2010-700-1.8			70					120	6	33,220	1.93°	-	70.55	72.90	No Interference	No Interference
DCTNB 2010-800-1.8			80					140	6	33,490	1.72°	-	80.62	83.30	No Interference	No Interference
DCTNB 2010-900-1.8			90					150	6	35,230	1.54°	-	90.68	93.71	No Interference	No Interference
DCTNB 2020-200-1.8	R1	0.9°	20	7	1.6	1.9	16°	80	6	18,730	4.55°	-	20.34	21.00	21.69	23.25
DCTNB 2020-250-1.8			25					80	6	21,850	3.84°	-	25.38	26.20	27.08	29.03
DCTNB 2020-400-1.8			40					100	6	25,470	2.61°	-	40.47	41.80	43.22	No Interference
DCTNB 2020-450-1.8			45					100	6	25,470	2.36°	-	45.51	47.00	48.60	No Interference
DCTNB 2020-600-1.8			60					120	6	33,220	1.83°	-	60.59	62.59	No Interference	No Interference
DCTNB 2020-700-1.8			70					120	6	33,220	1.59°	-	70.66	73.00	No Interference	No Interference
DCTNB 2020-800-1.8			80					140	6	33,490	1.41°	-	80.72	No Interference	No Interference	No Interference
DCTNB 2020-1000-1.8			100					150	6	37,910	1.15°	-	100.85	No Interference	No Interference	No Interference

## Milling Conditions for DCTNB

WORK MATERIAL			GRAPHITE			
Model Number	Radius of Ball Nose (mm)	Neck Length (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)
2010-200-1.8	R0.5	20	30,000	1,500	0.1	0.12
2010-250-1.8		25	30,000	1,500	0.08	0.12
2010-400-1.8		40	27,000	1,200	0.07	0.12
2010-600-1.8		60	23,000	800	0.06	0.12
2010-700-1.8		70	20,000	600	0.05	0.12
2010-800-1.8		80	18,000	500	0.04	0.12
2010-900-1.8		90	15,000	400	0.03	0.12
2020-200-1.8	R1	20	27,000	2,000	0.24	0.5
2020-250-1.8		25	27,000	2,000	0.19	0.5
2020-400-1.8		40	27,000	2,000	0.13	0.4
2020-450-1.8		45	27,000	2,000	0.11	0.4
2020-600-1.8		60	23,000	1,500	0.1	0.3
2020-700-1.8		70	20,000	1,200	0.09	0.3
2020-800-1.8		80	17,000	900	0.09	0.2
2020-10001.8		100	14,000	600	0.09	0.2



## Note:

- Use a milling machine dedicated for Graphite.
- Decrease the feed rate more than 50% from the milling parameters when slot milling.
- Recommend air blow for Graphite.

## Other series for Graphite milling

## Square / Long Neck Square

(★ Highly Recommended ● Recommended ○ Suggested)

Number of Flutes, Tool Type	Model Number	Appearance	Coating	Size	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Hard Brittle (Non-Metallic) Materials	Page
4 flutes Square	<b>CGE</b>		Non-coat	$\phi 2 \sim \phi 20$	○	★	○	○	○		236
2 flutes Square	<b>DCES 2000</b>		DIA	$\phi 0.2 \sim \phi 6$	○	★	○	○	●	○	188
4 flutes Square	<b>DCES 4000</b>		DIA	$\phi 3 \sim \phi 10$	○	★	○	○	●	○	234
2 flutes Long Neck Square	<b>DCLS</b>		DIA	$\phi 0.4 \sim \phi 6$	○	★	○	○	●	○	266

## Long Neck Radius

4 flutes Long Neck Radius	<b>DCLRS</b>		DIA	$\phi 1 \sim \phi 6$	○	★	○	○	●	○	396
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## Ball / Long Neck Ball / Taper Neck Ball

2 flutes Ball	<b>CGB 2000</b>		Non-coat	R0.2 ~ R6	○	★	○	○	○		440
4 flutes Ball	<b>CGB 4000</b>		Non-coat	R2 ~ R10	○	★	○	○	○		458
2 flutes Ball	<b>DCB</b>		DIA	R0.5 ~ R6	○	★	○	○	●	○	438
2 flutes Long Neck Ball	<b>DCLB</b>		DIA	R0.2 ~ R3	○	★	○	○	●	○	512
2 flutes Taper Neck Ball	<b>DCTNB</b>		DIA	R0.5 ~ R1	○	★	○	○	●	○	556

3mm Shank V Series

UDC-PCD Series

CBN Series

Square

Square

Long Neck Square

Radius

Radius

Long Neck Radius

Taper Neck Radius

Ball

Ball / Long Shank Ball

Ball

Long Neck Ball

Taper Neck Ball

Taper

Taper

Barrel

Barrel

Spiral V Cutter

Spiral V Cutter

Drill

Drill

Technical Data

Technical Data